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("intrusion detection system" and probe and packet)
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1 Measuring intrusion detection capability: an information-theoretic approach

Guofei Gu, Prahlad Fogla, David Dagon, Wenke Lee, Boris Skori

March ASI ACCS '06: Proceedings of the 2006 ACM Sympos

ASIACCS '06: Proceedings of the 2006 ACM Symposium on Information,

2006 computer and communications security

Publisher: ACM

Full text available: pdf(381.84 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 328, Citation Count: 1

A fundamental problem in intrusion detection is what metric(s) can be used to objectively evaluate an intrusion detection system (IDS) in terms of its ability to correctly classify events as normal or intrusive. Traditional metrics (e.g., true positive ...

Keywords: information-theoretic, intrusion detection, performance measurement

Challenging the anomaly detection paradigm; a provocative discussion

Carrie Gates, Carol Taylor

September NSPW '06: Proceedings of the 2006 workshop on New security 2006 paradigms

Publisher: ACM

Full text available: pdf(145.52

KB)

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 31. Downloads (12 Months): 173. Citation Count: 1

In 1987, Dorothy Denning published the seminal paper on anomaly detection as applied to intrusion detection on a single system. Her paper sparked a new paradigm in intrusion detection research with the notion that malicious behavior could be distinguished ...

Keywords: intrusion detection, security

Balancing cooperation and risk in intrusion detection

Deborah Frincke

February ACM Transactions on Information and System Security (TISSEC). 2000 Volume 3 Issue 1

Publisher: ACM

Full text available: pdf(236.44

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 131, Citation Count: 6

Early systems for networked intrusion detection (or, more generally, intrusion or misuse management) required either a centralized architecture or a centralized decision-making point, even when the data gathering was distributed. More recently, researchers ...

Keywords: access control models, authorization mechanisms, collaborative systems

Sensor-based intrusion detection for intra-domain distance-vector routing

Vishal Mittal, Giovanni Vigna

November CCS '02: Proceedings of the 9th ACM conference on Computer and 2002 communications security

Publisher: ACM

Full text available: pdf(267.99

KBI

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 4. Downloads (12 Months): 76. Citation Count: 3

Detection of routing-based attacks is difficult because malicious routing behavior can be identified only in specific network locations. In addition, the configuration of the signatures used by intrusion detection sensors is a time-consuming and error-prone ...

Keywords: intrusion detection, network topology, routing security

5 Enhancing byte-level network intrusion detection signatures with context

Robin Sommer, Vern Paxson

October CCS '03: Proceedings of the 10th ACM conference on Computer and communications security

Publisher: ACM

Full text available: pdf(217.88 Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 170, Citation Count: 12

Many network intrusion detection systems (NIDS) use byte sequences as signatures to detect malicious activity. While being highly efficient, they tend to suffer from a high false-positive rate. We develop the concept of *contextual signatures* as ...

Keywords: bro, evaluation, network intrusion detection, pattern matching, security, signatures, snort

6 A new intrusion detection system using support vector machines and hierarchical clustering

Latifur Khan, Mamoun Awad, Bhavani Thuraisingham

October The VLDB Journal — The International Journal on Very Large Data 2007 Bases, Volume 16 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(514.93 Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 49, Citation Count: 0

Whenever an intrusion occurs, the security and value of a computer system is compromised. Network-based attacks make it difficult for legitimate users to access various network services by purposely occupying or sabotaging network resources and services. ...

7 A framework for constructing features and models for intrusion detection systems

Wenke Lee, Salvatore J. Stolfo

November ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 4

Publisher: ACM

Full text available: pdf(187.03 Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 491, Citation Count: 30

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, ...

Keywords: data mining, feature construction, intrusion detection

8 Anomalous system call detection

Darren Mutz, Fredrik Valeur, Giovanni Vigna, Christopher Kruegel

February ACM Transactions on Information and System Security (TISSEC), 2006 Volume 9 Issue 1

Publisher: ACM

Full text available: pdf(645.58

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 371, Citation Count: 0

Intrusion detection systems (IDSs) are used to detect traces of malicious activities targeted against the network and its resources. Anomaly-based IDSs build models of the expected behavior of applications by analyzing events that are generated during ...

Keywords: Bayesian network, Intrusion detection, anomaly detection, computer security

9 TCM-KNN scheme for network anomaly detection using feature-based

optimizations

Yang Li, Li Guo

March SAC '08: Proceedings of the 2008 ACM symposium on Applied computing 2008

Publisher: ACM

Full text available: pcf/(137.72 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

With the rapid increase of network threats and cyber attacks, network security problem is becoming more and more serious. Network anomaly detection is a key technique to secure information systems and resist cyber attacks. In this paper, we first propose ...

Keywords: TCM-KNN algorithm, anomaly detection, feature selection, feature weight, network security

10 Is sampled data sufficient for anomaly detection?

Jianning Mai, Chen-Nee Chuah, Ashwin Sridharan, Tao Ye, Hui Zang

October IMC '06: Proceedings of the 6th ACM SIGCOMM conference on Internet

2006 measurement

Publisher: ACM

Full text available: pdf(1.83 Additional Information: full citation, abstract, references, cited by, index

MB) terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 149, Citation Count: 1

Sampling techniques are widely used for traffic measurements at high link speed to conserve router resources. Traditionally, sampled traffic data is used for network management tasks such as traffic matrix estimations, but recently it has also been used ...

Keywords: anomaly detection, portscan, sampling, volume anomaly

11 Internet intrusions: global characteristics and prevalence

June

Vinod Yegneswaran, Paul Barford, Johannes Ullrich ACM SIGMETRICS Performance Evaluation Review, Volume 31 Issue 1 2003

Publisher: ACM

Full text available: pdf(699.44

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 156, Citation Count: 15

Network intrusions have been a fact of life in the Internet for many years. However, as is the case with many other types of Internet-wide phenomena, gaining insight into the global characteristics of intrusions is challenging. In this paper we ...

Keywords: internet performance and monitoring, network security, wide area measurement

12 A high-level programming environment for packet trace anonymization and

transformation

packet ...

Ruoming Pang, Vern Paxson

August Si GCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications Publisher: ACM

Full text available: pdf(251.27 Additional Information: full citation, abstract, references, cited by, lindex terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 66, Citation Count: 14

Packet traces of operational Internet traffic are invaluable to network research, but public sharing of such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the

Keywords: anonymization, internet, measurement, network intrusion detection, packet trace, privacy, transformation

13 Network intrusion detection through Adaptive Sub-Eigenspace Modeling in

multiagent systems
Mei-Ling Shyu, Thiago Quirino, Zongxing Xie, Shu-Ching Chen, Liwu Chang
September ACM Transactions on Autonomous and Adaptive Systems (TAAS).

2007 Volume 2 Issue 3 **Publisher:** ACM

MB)

Full text available: pdf(1.93

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 543, Citation Count: 0

Recently, network security has become an extremely vital issue that beckons the development of accurate and efficient solutions capable of effectively defending our network systems and the valuable information journeying through them. In this article. ...

Keywords: Agent communications, adaptive sub-eigenspace modeling (ASEM), agent-based distributed system, intrusion detection, network security

14 Dendritic cells for SYN scan detection

Julie Greensmith, Uwe Aickelin

July GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation

Publisher: ACM

Full text available: pdf(2.87

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 119, Citation Count: 0

Artificial immune systems have previously been applied to the problem of intrusion detection. The aim of this research is to develop an intrusion detection system based on the function of Dendritic Cells (DCs). DCs are antigen presenting cells and key ...

Keywords: artificial immune systems, dendritic cells, port scans

15 Network anomaly detection based on TCM-KNN algorithm

Yang Li, Binxing Fang, Li Guo, You Chen
March ASI ACCS '07: Proceedings o

March ASIACCS '07: Proceedings of the 2nd ACM symposium on Information, computer and communications security

Publisher: ACM

Full text available: pdf(160.77

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 380, Citation Count: 0
Intrusion detection is a critical component of secure information systems. Network anomaly detection has been an active and difficult research topic in the field of Intrusion Detection for many years. However, it still has some problems unresolved. They ...

Keywords: TCM-KNN algorithm, anomaly detection, machine learning, network security

16 Learning attack strategies from intrusion alerts

Peng Ning, Dingbang Xu

October CCS '03: Proceedings of the 10th ACM conference on Computer and communications security

Publisher: ACM

Full text available: pdf(248.17

Additional Information: full citation, abstract, references, cited by,

KB) index terms

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 201, Citation Count: 5

Understanding strategies of attacks is crucial for security applications such as computer and network forensics, intrusion response, and prevention of future attacks. This paper presents techniques to automatically learn attack strategies from correlated ...

Keywords: alert correlation, intrusion detection, profiling attack strategies

17 Towards NIC-based intrusion detection

M. Otey, S. Parthasarathy, A. Ghoting, G. Li, S. Narravula, D. Panda

August KDD '03: Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM

Full text available: pdf(103.59

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 98, Citation Count: 1

We present and evaluate a NIC-based network intrusion detection system. Intrusion detection at the NIC makes the system potentially tamper-proof and is naturally extensible to work in a distributed setting. Simple anomaly detection and signature detection ...

Keywords: NICs, data mining, network interface cards, network intrusion detection, network security

18 A formal approach to sensor placement and configuration in a network intrusion

detection system

Marco Rolando, Matteo Rossi, Niccolò Sanarico, Dino Mandrioli

May SESS '06: Proceedings of the 2006 international workshop on Software engineering for secure systems

Publisher: ACM

Full text available: pdf(228.55 Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 109, Citation Count: 1

Network Intrusion Detection Systems (NIDSs) can be composed of a potentially large number of sensors, which monitor the traffic flowing in the network. Deciding *where* sensors should be placed and *what* information they need in order to detect ...

Keywords: formal model, intrusion detection systems, network analysis, sensor configuration, sensor placement

Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA

intrusion detection system evaluations as performed by Lincoln Laboratory November ACM Transactions on Information and System Security (TISSEC).

2000 Volume 3 Issue 4

Publisher: ACM

Full text available: pdf(156.16 Additional Information: full citation, abstract, references, cited by, KB) index terms, review

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 355, Citation Count: 23 In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative

evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

20 Constructing attack scenarios through correlation of intrusion alerts

Peng Ning, Yun Cui, Douglas S. Reeves November

CCS '02: Proceedings of the 9th ACM conference on Computer and 2002 communications security

Publisher: ACM

Full text available: pdi(184.18 Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 200, Citation Count: 13

Traditional intrusion detection systems (IDSs) focus on low-level attacks or anomalies, and raise alerts independently, though there may be logical connections between them. In situations where there are intensive intrusions, not only will actual alerts

Keywords: alert correlation, attack scenarios, intrusion detection

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